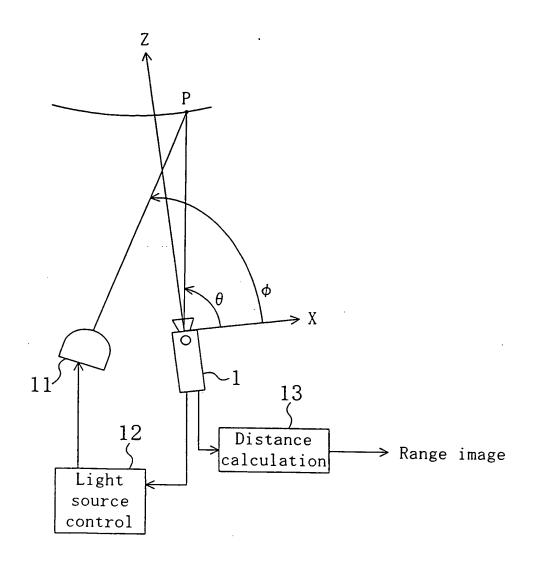
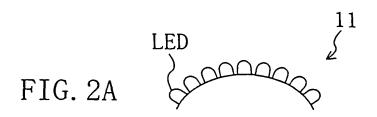
Title: RANGE FINDER, THREE-DIMENSIONAL MEASURING METHOD AND LIGHT SOURCE APPARATUS Inventor: KENYA UOMORI ET AL.

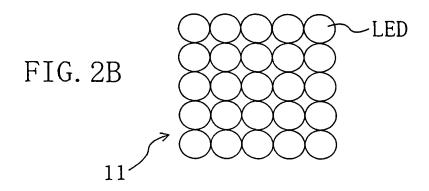
Atty. Ref. No.: 5077-000069/DVA

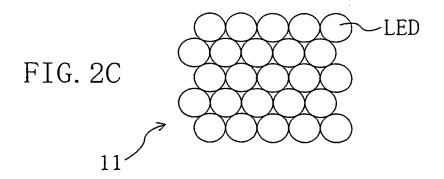
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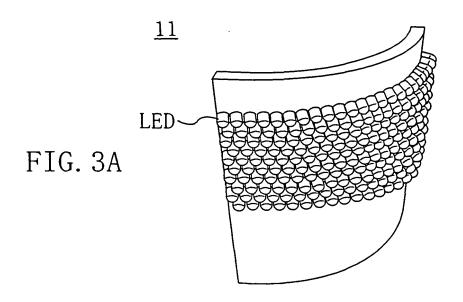
Atty. Ref. No.: 5077-000069/DVA

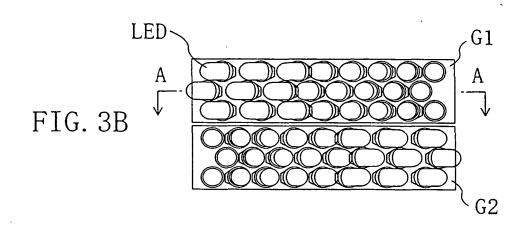


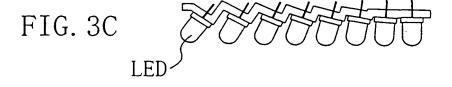




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FIG. 4A

Light pattern A

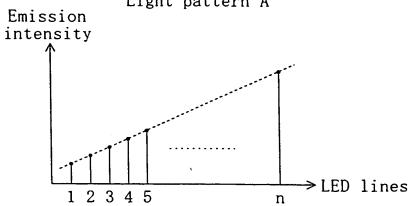
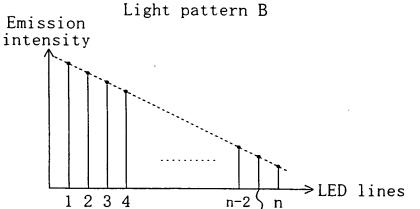


FIG. 4B



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FIG. 5

Exposure _	—→ Time										
timing of	1	2	3	4	5	6	7	8			
Light	- A	В	A	В	A	В	A	В	<u> </u>		

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FIG. 6A

Light pattern A

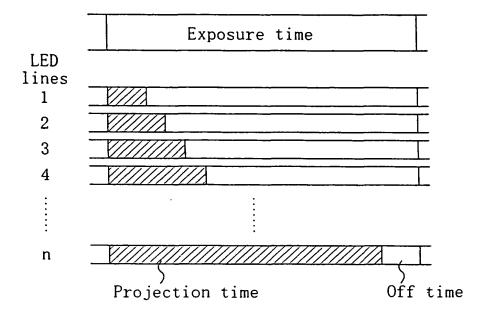
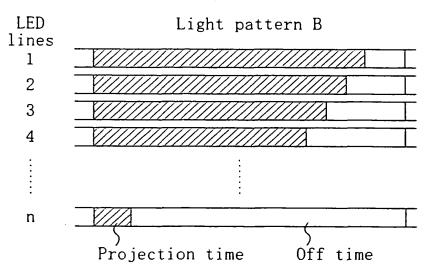


FIG. 6B



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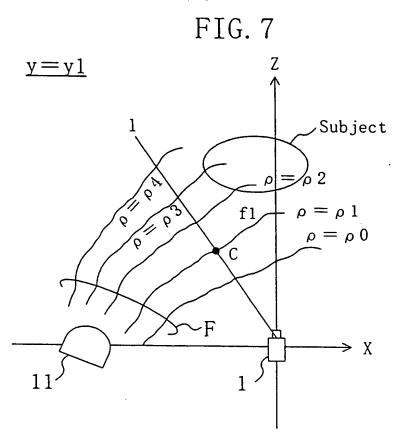
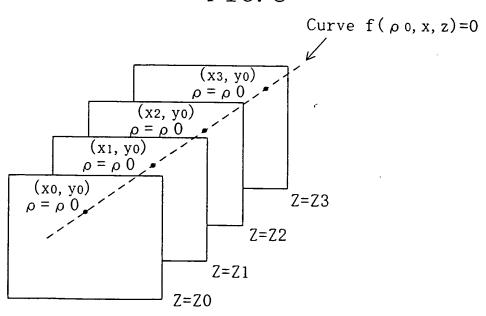


FIG. 8



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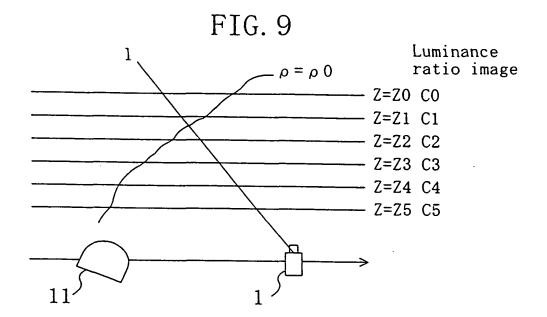
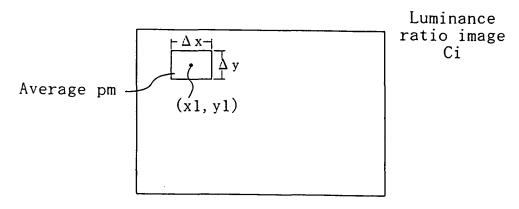
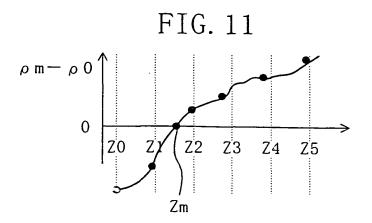


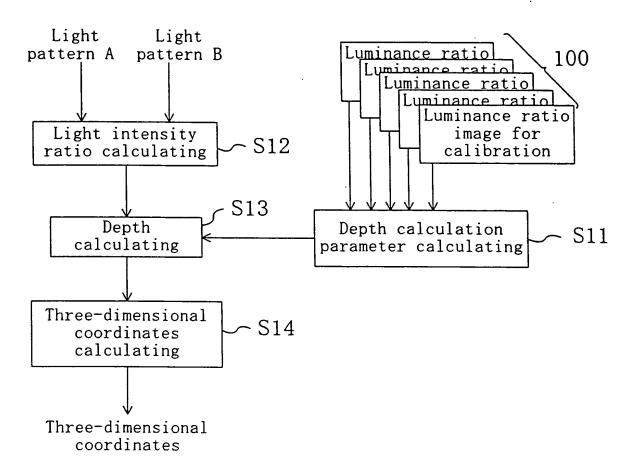
FIG. 10





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FIG. 12



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FIG. 13

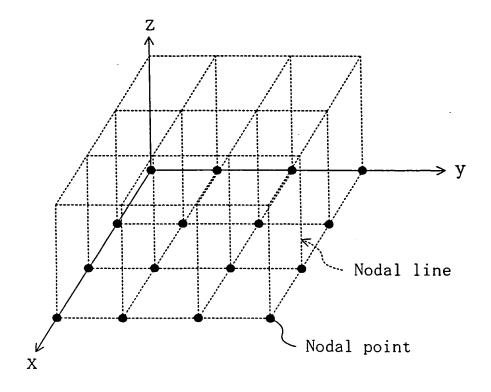
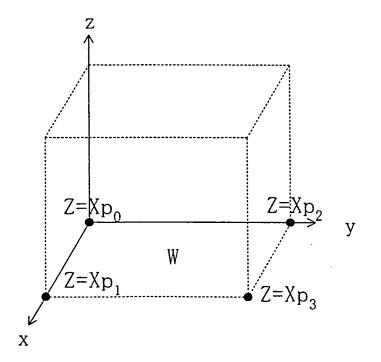


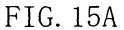
FIG. 14

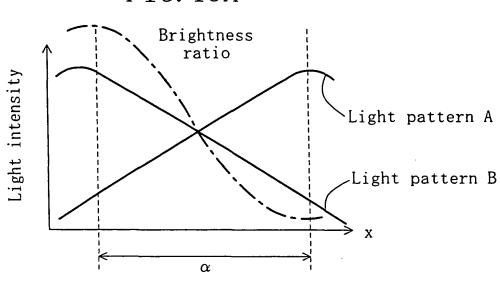


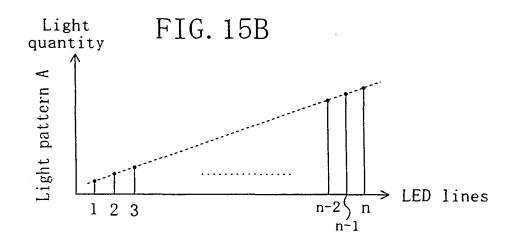
Title: RANGE FINDER, THREE-DIMENSIONAL MEASURING METHOD AND LIGHT SOURCE APPARATUS

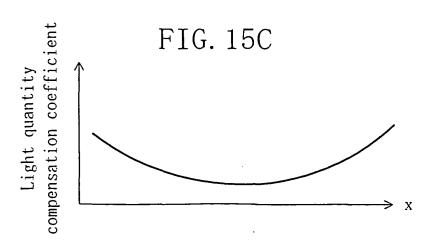
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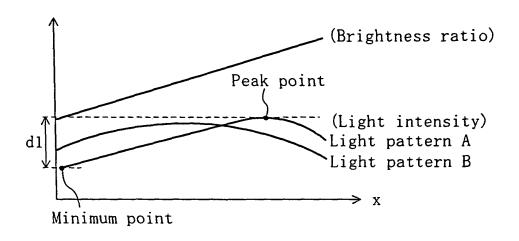


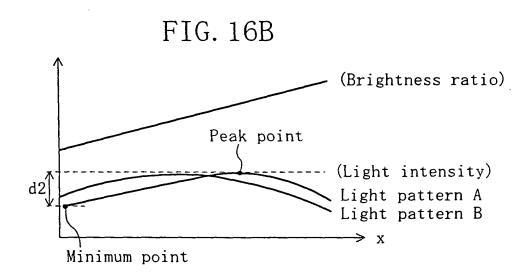


Title: RANGE FINDER, THREE-DIMENSIONAL MEASURING METHOD AND LIGHT SOURCE APPARATUS Inventor: KENYA UOMORI ET AL.

nventor: KENYA UOMORI ET AL. Atty. Ref. No.: 5077-000069/DVA

FIG. 16A

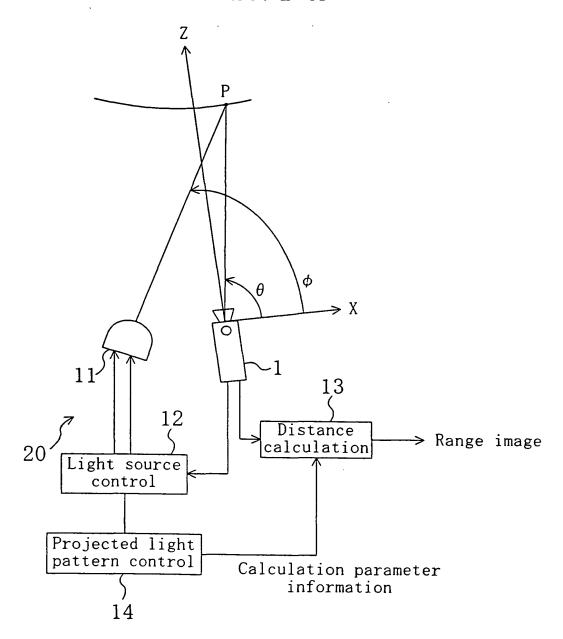




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FIG. 17A



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FIG. 18A

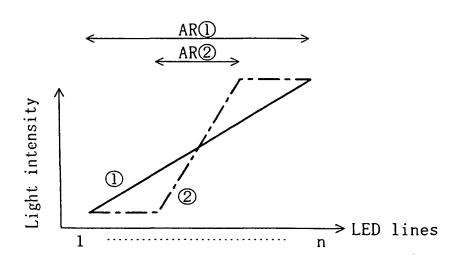
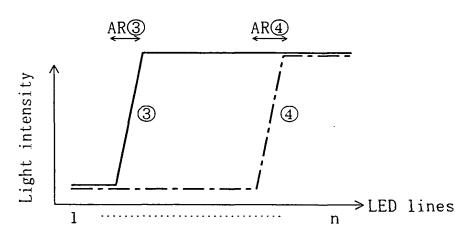


FIG. 18B



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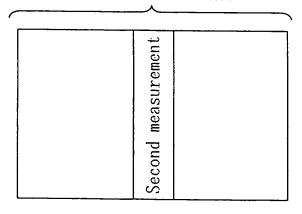
FIG. 19A

Camera field range

First measurement	Second measurement	Third measurement	Fourth measurement	Fifth measurement	Sixth measurement	Seventh measurement

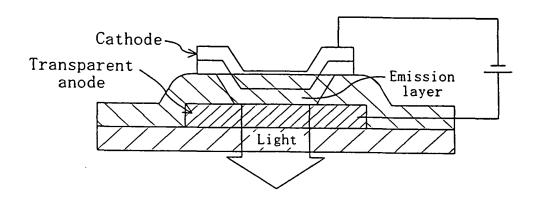
FIG. 19B

First measurement



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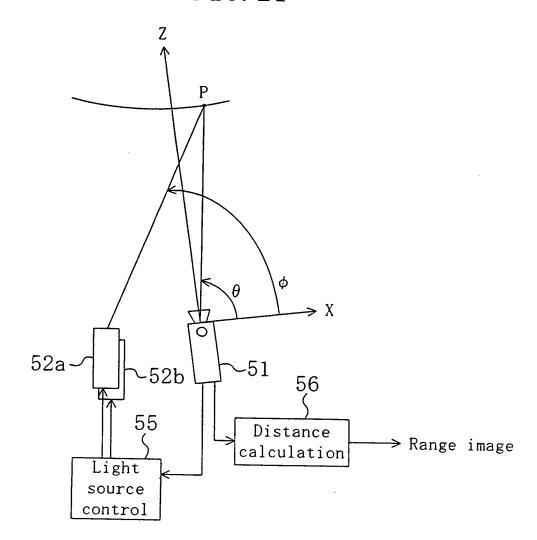
FIG. 20



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FIG. 21

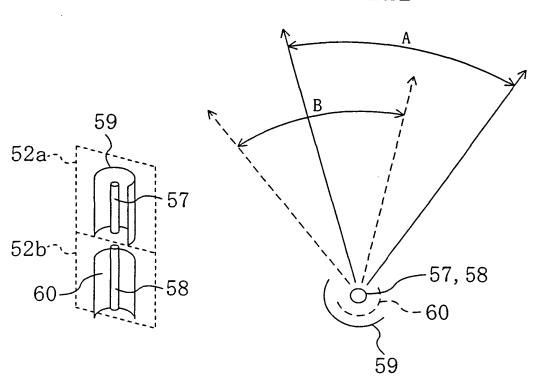


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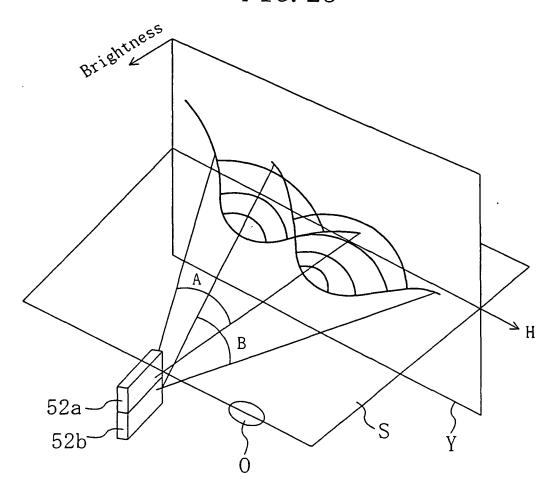
FIG. 22A

FIG. 22B



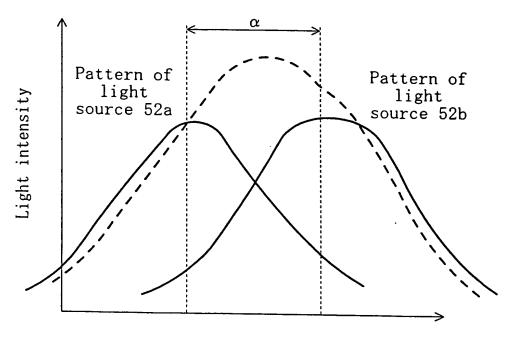
Atty. Ref. No.: 5077-000069/DVA

FIG. 23

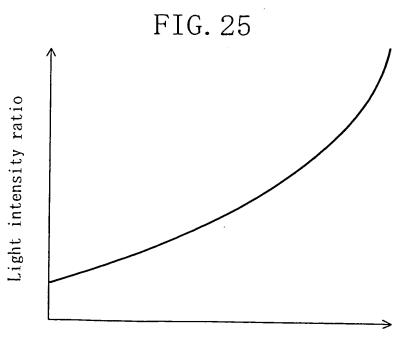


Atty. Ref. No.: 5077-000069/DVA

FIG. 24



Light projection angle ϕ on plane S



Light projection angle ϕ on plane S